RoadQuake® Safety System
Temporary Portable Rumble Strip (TPRS)
Product Guide

RoadQuake®2F TPRS | RoadQuake® T-Handle™ | RoadQuake®2F CRIB™ Cargo Carrier

Quik-Detach™ CRIB Mounting System | RoadQuake®2F Retrieval System
**RoadQuake® Safety System**

For faster, safer deployment and removal of RoadQuake® 2F Temporary Portable Rumble Strip.

**RoadQuake® 2F TPRS**

Ideal for work zones where daily installation and removal is required:

- Pilot car or flagging operations
- Lane closures
- Traffic safety check-points
- Routine maintenance projects
- Paving operations

**RoadQuake® 2F CRIB™ Cargo Carrier**

RoadQuake TPRS alerts distracted drivers to changing road conditions.

**RoadQuake TPRS is:**

**Temporary** - No nails or glue are needed for installation and use.
Quick installation and removal, and no clean-up.

**Portable** - No installation equipment needed.
A crew of 2 can install an array in minutes.

**Durable** - 3-5 year life under normal conditions.
Suitable for use in rain and temperatures of 0 °F to 180 °F and in speeds up to 80 mph.

RQ TPRS meets Section 6F.87 of the MUTCD, 2009 Edition.

**RoadQuake® T-Handle™**

Lifting RoadQuake is easier, faster, safer:

- Reduces possibility of superficial stress caused by lifting, carrying RoadQuake TPRS.
- Sturdy, comfortable, plastic grip with galvanized steel foot for durable outdoor use.
- 4.5" W x 11" H, 22 oz. Stores in toolbox, console, or glovebox.

**RoadQuake® 2F Retrieval System**

RoadQuake Safety System Benefits:

- Workers can deploy and move TPRS arrays faster.
- Workers are less exposed to traffic.
- CRIB and T-Handle reduce potential for superficial stress caused by lifting and carrying RoadQuake TPRS.

**Quik-Detach™ CRIB™ Mounting System**

RoadQuake 2F CRIB™ Cargo Carrier

RQ TPRS meets Section 6F.87 of the MUTCD, 2009 Edition.
Designed to reduce accidents and save lives, RoadQuake 2F TPRS alerts distracted drivers to changing road conditions, like work zones and check points.

• Meets Section 6F.87 of the MUTCD, 2009 Edition.
• Generates the same level of sound and vibration as milled strips.
• For posted speed limits up to 80 mph and temperatures from 0° to 180° F.
• Folds to a compact 66" length. Weighs 110 lbs.
• Ergonomic handles make installation and storage easy. Non-slip textured surface helps to keep RoadQuake 2F TPRS in place.
• Bevels on both sides take the guess-work out of installation.
• Hinge links meet ANSI Standard for master chain link, size 60-2.

Deployment and Unfolding Instructions:

For more information on the use of RoadQuake 2F TPRS, contact us for a complimentary copy of our Best Practices for Optimal Use of RQ TPRS guide book.

Step 1:
Do not pick up the non-hinged side of RoadQuake 2F TPRS by hand. Use carrying strap, provided by PSS, for non-hinged side. Or use RoadQuake T-Handle for either side. Use of hands for hinged side only is acceptable.

Step 2:
Once in place, remove the carrying strap from the non-hinged side.

Step 3:
Then, simply unfold the rumble strip.

Step 4:
Place in position.

CAUTION!

Proper Handling of RoadQuake® 2F Temporary Portable Rumble Strip (TPRS)

Do not put your hand through both handles of the non-hinged side of a folded strip when transporting RoadQuake 2F TPRS.

Doing so may cause severe pinching or a more serious injury.

If carrying by hand, use the carrying strap or RoadQuake T-Handle on the non-hinged side to transport RoadQuake 2F TPRS. PSS ships 1 strap with each RoadQuake 2F unit.
CRIB is a fully integrated cargo carrier designed specifically for the transport, deployment, removal, storage and safe-keeping of RoadQuake 2F TPRS.

CRIB holds a maximum of 6 each RoadQuake 2F TPRS in their folded position. That's enough to deploy 2 each 3-strip arrays. Because CRIB mounts to the exterior of a vehicle, CRIB eliminates the need to find extra space in crowded vehicles.

CRIB Features:

- CRIB, with mount, weighs 132 lbs. An individual RoadQuake 2F TPRS weighs 110 lbs. CRIB will hold a maximum 6 each RoadQuake 2F TPRS, for a total weight of 792 lbs.
- A Class IV or Class V receiver is required to transport CRIB and 6 each RoadQuake 2F TPRS units. Consult the vehicle manual for maximum Tongue Weight (TW) allowed.
- CRIB measures 17.5" W x 13.375" H x 70" L. Made of steel, CRIB is powder-coated in safety yellow, with reflective conspicuity tape applied to 3 sides.
- PSS also includes 2 adjustable straps with each CRIB, to hold TPRS during transport.

CRIB Benefits:

- Deployment and removal of an array of RoadQuake 2F TPRS can be a one person job.
- Reduces superficial stress to workers that could be caused by lifting and carrying RoadQuake 2F TPRS.
- Reduces overall deployment and removal time, when compared to RoadQuake 2 modular TPRS.
- Eliminates the need to find extra space in crowded vehicles.
- Places RoadQuake 2F TPRS in alignment with deployment location.
For faster, safer mounting and removal of RoadQuake® 2F CRIB™ Cargo Carrier.
Quik-Detach is the newest component of the RoadQuake Safety System.

- Workers can deploy and move RoadQuake 2F Temporary Portable Rumble Strip arrays faster.
- CRIB with Quik-Detach reduces potential for superficial stress caused by lifting and carrying.

Quik-Detach sold separately.

**Assembly Instructions**

1. Install CRIB Pintle mount into vehicle receiver. (Pintle mount shipped with each CRIB.)

2. Install Pintle mount plate with hooks facing up. Use 4 each 1/2-13 bolts and lock nuts. Adjust Pintle mount plate vertically to assure adequate ground clearance. (See also Step 4.)


4. Install CRIB plate on CRIB. Use 4 each 1/2-13 bolts and lock nuts. Adjust height vertically as required. (See also Step 2.)

5. Install head of bolts on inside of CRIB plate. Shown: Lock nuts on outside of CRIB plate.


7. Attach CRIB to the hooks of the Pintle mount plate. (Can be attached manually, or with lifting equipment.)

8. Insert locking pins in two places, one on each side.

9. Shown: CRIB attached to vehicle using Quik-Detach, with two locking pins in place.
Retrieval System pulls RoadQuake 2F Temporary Portable Rumble Strips into CRIB Cargo Carrier with little manual effort.

Retrieval System mounts easily to CRIB devices!

Retrieval System:  
• Reduces workers’ exposure to live traffic.  
• Reduces manual exertion, possible injury.

With Retrieval System, removal of RoadQuake 2F Rumble Strips is a 1 person operation.

Retrieval System features a powerful 4.1 HP, 12 V electric motor. Pulls 110 lb. RoadQuake 2F Rumble Strips into CRIB in less than 10 seconds!
**ROADQUAKE® 2F RETRIEVAL SYSTEM**

**COMPONENT FEATURES**

**Retrieval System consists of...**

- **Wireless Remote**
- **Housing with Handle**
- **Electrical Connector**
- **Stainless Steel Retrieval Hook**
- **30' Strap**
- **Power Pack Unit**
- **Mounting Hook**
- **Mounting Slot**

Design may change from pictures shown.

Included with Retrieval System (not shown):
- 2 each CRIB Roller Bracket Systems
- Back-up wired remote

**Power Pack:**
- Self-contained, charging electrical system
- Charges from a 12 Volt automotive system
- Maintains charge when plugged into running host vehicle
- Weather resistant

Wireless remote stores safely, conveniently, ready for the next retrieval.

Hook attaches to RoadQuake 2F Rumble Strips. No fasteners required.

Angular design of Retrieval Hook aids in alignment of rumble strips during retrieval.

See following pages for instructions on use of Retrieval System.
Overview: How to retrieve RoadQuake 2F TPRS from the roadway using our Retrieval System!

**WARNING!**

- Read full instructions prior to use.
- RoadQuake® 2F Retrieval System is designed to only retrieve PSS RoadQuake 2F Temporary Portable Rumble Strip from the roadway.
- Inspect Retrieval System before use. Replace worn or damaged parts.
- Keep away from all moving parts. Personal injury could result.
- Do not operate Retrieval System unless it is properly mounted to RoadQuake 2F CRIB™ Cargo Carrier.
- Upon work completion, remove Retrieval System from CRIB. Stow safely.

The pictures here are from our "Introducing RoadQuake 2F Retrieval System" video. Watch the video on the PSS YouTube Channel!


1. Mount Retrieval System to CRIB Cargo Carrier. Verify that the Retrieval System is fully engaged.

2. With Power Pack stored safely in the truck, connect the power.

3. Always use caution when working in and around live traffic. Press the "Out" button on the wireless Remote to unwind Retrieval Hook and Strap. Pull the strap out to the rumble strip.
4. Attach the Retrieval Hook to the handle of the rumble strip. Attach the hook underneath the Rumble Strip.

5. Press the “In” button on the Remote to return the rumble strip to CRIB Cargo Carrier.

6. Retrieval System will pull rumble strip into CRIB. Repeat sequence as necessary until all RoadQuake 2F TPRS have been removed from the roadway.

7. Retrieval System automatically stops when strap is fully rewound. Remove Hook from rumble strip in CRIB to repeat the process.

8. When all rumble strips have been returned to CRIB, and the job is complete, turn off Power Pack, disconnect from motor, and place Retrieval System in the truck for safe storage and transport.
RoadQuake® 2 TPRS

Designed to reduce accidents and save lives, RoadQuake 2 TPRS alerts distracted drivers to changing road conditions, like work zones and checkpoints.

- RoadQuake 2 is 13” W x 3/4” H x 45” L. Weighs only 35 lbs.
- Generates the same level of sound and vibration as milled strips, and higher levels than glue-down strips.
- For posted speed limits up to 80 mph, and temperatures from 0° to 180° F.

- RoadQuake 2 is easy to transport and store.
- Ideal when transport and storage space is limited.
- Fits in virtually any vehicle.

- Assembles in minutes. No tools required.
- Features beveled edges on both sides for easy installation.
- For complete assembly instructions, see pages 8 & 9.

- Installs in minutes.
- No glue, adhesives or nails required.
- No tools or equipment needed.

RoadQuake 2 meets Section 6F.87 of the MUTCD, 2009 Edition.

Watch our YouTube RoadQuake 2 Assembly Video.

Prior to assembly or installation, sweep areas clear of gravel and other debris that may cause strips to move.

The only tool you will need for assembly is a 4x4 piece of wood, or an object of similar size.

RoadQuake 2 is a temporary device; no glue, adhesives or other fasteners are required for installation. RoadQuake 2 simply conforms to the surface of the road.

Prior to assembly or installation, sweep areas clear of gravel and other debris that may cause strips to move.

The only tool you will need for assembly is a 4x4 piece of wood, or an object of similar size.

The goal of assembly is to properly engage tabs with slots.

Tabs and Slots:

RoadQuake 2 is ready-to-assemble. No hardware is required.

In the picture to the left, the section on the left is the “tabbed” section; the section on the right is the “slotted” section.

Note that both long edges are beveled, so that either edge can face traffic.

The channel under the tabs, shown here...

...must engage the rod on the slotted end, shown here.
RoadQuake® 2 TPRS Assembly Instructions, continued.

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td><strong>ELEVATE</strong>&lt;br&gt;Put the 4x4 under the slotted end of the first section. The wood will ELEVATE the slotted end. Next, pick up the second section with the tabbed end down and nameplate facing you. Straddle or stand next to the elevated section.</td>
</tr>
<tr>
<td>2.</td>
<td><strong>INSERT</strong>&lt;br&gt;INSERT the tabbed end into the elevated slotted section.</td>
</tr>
<tr>
<td>3.</td>
<td><strong>ENGAGE</strong>&lt;br&gt;ENGAGE the rod on the slotted end.</td>
</tr>
<tr>
<td>4.</td>
<td><strong>KICK</strong>&lt;br&gt;KICK the section in your hand to fully engage the channel on the rod.</td>
</tr>
<tr>
<td>5.</td>
<td><strong>DROP</strong>&lt;br&gt;Slowly DROP the section...</td>
</tr>
<tr>
<td>6.</td>
<td><strong>REMOVE</strong>&lt;br&gt;REMOVE the wood and...</td>
</tr>
<tr>
<td>7.</td>
<td><strong>STOMP</strong>&lt;br&gt;STOMP on it, to complete the assembly. You can now add a third section to make a full 11 foot strip that spans an entire lane.</td>
</tr>
</tbody>
</table>

**Kicking Style**

Picture 4 shows a sideways, soccer-style kick, using the instep of the foot. Straight-on, football-style is also acceptable. Simply straddle the section on the ground, insert and engage the section in hand, and kick straight-on, in football-style. Then proceed to Steps 5, 6 and 7.

**Incorrect assembly**

These sections have not been assembled correctly. Please repeat the assembly steps. But first, watch the YouTube RoadQuake 2 Assembly Video!

**Correct assembly**

Properly assembled sections should be smooth and flat, as shown in the picture above.
Converts RoadQuake 2 TPRS to RoadQuake 2F TPRS.

**Retrofit Unit**

Alerts drivers to changing road conditions...

- For posted speed limits up to 80 mph and temperatures from 0° to 180° F.
- RoadQuake 2 Retrofit is 132” long when unfolded. Covers an entire lane.
- Folds to a compact 66” length. Weighs 107 lbs.

**Complete RoadQuake 2F TPRS Retrofit unit assembled**

Ideal for Work Zones where daily installation and removal is required

- At 13” W and 3/4” H, RoadQuake 2 Retrofit generates the same level of sound and vibration as milled strips.
- Ergonomic handles make installation and storage easy. Non-slip textured surface helps to keep RoadQuake 2 Retrofit in place.
- Bevels on both sides take the guess-work out of installation.
- Hinge links meet ANSI Standard for master chain link, size 60-2.

Assembly instructions:
Simply attach RoadQuake 2 units to our RetroFit device, and apply pavement marking tape.

<table>
<thead>
<tr>
<th>Step</th>
<th>Image</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td><img src="image1" alt="RoadQuake 2 RetroFit Folding Rumble Strip" /></td>
<td>RoadQuake 2 RetroFit Folding Rumble Strip.</td>
</tr>
<tr>
<td>2.</td>
<td><img src="image2" alt="Elevate each end of RetroFit to connect RoadQuake 2 modular units" /></td>
<td>Elevate each end of RetroFit to connect RoadQuake 2 modular units.</td>
</tr>
<tr>
<td>3.</td>
<td><img src="image3" alt="Install RoadQuake 2 units to both sides of RetroFit" /></td>
<td>Install RoadQuake 2 units to both sides of RetroFit.</td>
</tr>
<tr>
<td>4.</td>
<td><img src="image4" alt="Before applying tape, clean 4” around the assembled joints" /></td>
<td>Before applying tape, clean 4” around the assembled joints. Use soap and water or degreaser detergent to remove all dirt and debris. Rinse with clean water. Allow to dry.</td>
</tr>
<tr>
<td>5.</td>
<td><img src="image5" alt="Use a brush or coarse rag to apply a generous coating of denatured alcohol to the clean tape application surface. Allow to dry." /></td>
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</tr>
<tr>
<td>6.</td>
<td><img src="image6" alt="Apply flame treatment to tape application surface. For best results, use the tip of the torch across the entire application surface, constantly moving back and forth. Do not overheat or burn the rubber surface. Flame treatment will warm the surface of the rubber and burn off all remaining contamination to maximize adhesion." /></td>
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</tr>
<tr>
<td>7.</td>
<td><img src="image7" alt="Center the 12.5” long tape at equal distances from the outside edges. Apply tape about 1/2” from the inside edge of the RoadQuake 2 handle. Make sure tape is properly aligned prior to final application. White reflective tape shown for demonstration purposes. Standard color for RetroFit shipments is black." /></td>
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</tr>
<tr>
<td>8.</td>
<td><img src="image8" alt="Once tape is properly positioned, apply firm pressure along the complete tape surface to eliminate trapped air pockets and assure good adhesive bond. For best results, allow minimum 24 hour adhesive cure time prior to rumble strip deployment." /></td>
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</tr>
<tr>
<td>9.</td>
<td><img src="image9" alt="Assembled RoadQuake 2 RetroFit Rumble Strip. Periodically examine the reflective tape for excessive wear or loss of adhesion." /></td>
<td>Assembled RoadQuake 2 RetroFit Rumble Strip. Periodically examine the reflective tape for excessive wear or loss of adhesion.</td>
</tr>
</tbody>
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Watch the YouTube RoadQuake 2 Assembly Video.
Please contact us for a complimentary copy of our guide books.